

COWLITZ RIVER BASIN

1

14237800 MAYFIELD RESERVOIR NEAR SILVER CREEK, WA

LOCATION.--Lat 46°30'13", long 122°35'11", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.20, T.12 N., R.2 E., Lewis County, Hydrologic Unit 17080005, on right bank at Mayfield Dam on Cowlitz River, 0.3 mi downstream from Silver Creek, 4 mi south of town of Silver Creek, and at mile 52.0.

DRAINAGE AREA.--1,392 mi².

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Mar. 5, 1963, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by concrete arch dam, completed April 1962; storage began Apr. 14, 1962. Usable capacity, 21,380 acre-ft between elevation 415 ft, lower limit of operation, and 425 ft, top of taintor gates. Dead storage below elevation 415 ft, 112,340 acre-ft. Crest of spillway is at elevation 385 ft. Water is used by City of Tacoma for power generation. Figures given herein represent total contents. Capacity table furnished by City of Tacoma. Chemical analyses December 1973 to September 1983 (samples were taken near the dam).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 134,850 acre-ft Dec. 9, 1971, elevation, 425.50 ft; minimum contents since normal operating level was attained, 112,830 acre-ft June 4, 1969, elevation, 415.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 132,512 acre-ft June 7, elevation, 424.46 ft; minimum contents, 122,670 acre-ft May 21, elevation, 419.96 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	423.69	130,788	---
Oct. 31.....	422.52	128,212	-2,576
Nov. 30.....	422.96	129,176	+964
Dec. 31.....	423.83	131,106	+1,930
CAL YR 1999.....	---	---	+2,298
Jan. 31.....	423.74	130,902	-204
Feb. 29.....	423.58	130,546	-356
Mar. 31.....	423.16	129,618	-928
Apr. 30.....	422.49	128,148	-1,470
May 31.....	422.98	129,218	+1,070
June 30.....	424.28	132,106	+2,888
July 31.....	423.98	131,436	-670
Aug. 31.....	423.24	129,798	-1,638
Sept. 30.....	422.73	128,676	-1,122
WTR YR 2000.....	---	---	-2,112